

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10157 (1982): Percussor, Neurological, McGill's Pattern
[MHD 7: Neurosurgery Instruments Implants and Accessories]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

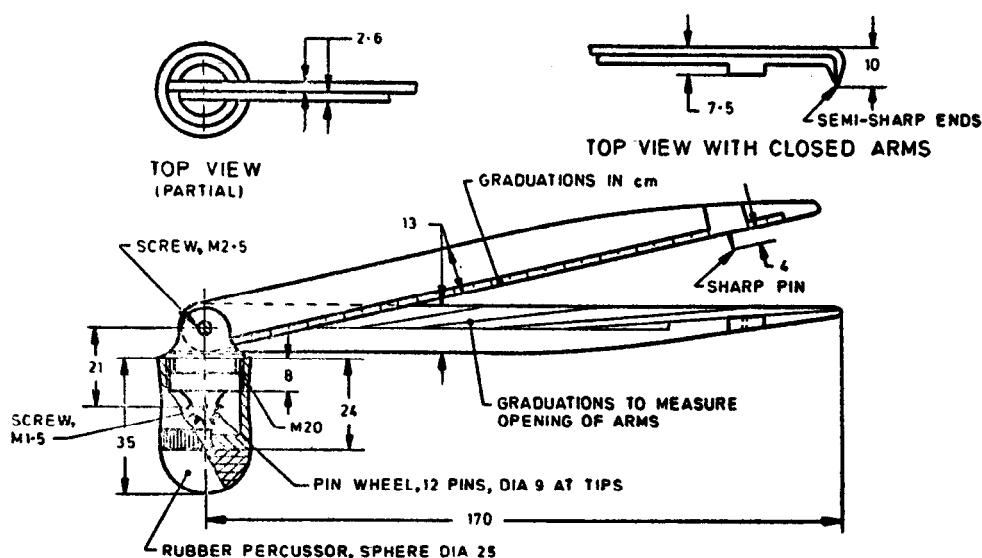
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Indian Standard

- 1. Scope** – Covers the requirements for McGill's neurological percussor used for neurological tests.

- 2. Terminology** — For the purpose of this standard, the nomenclature of the different components of the percussor shall be as shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 PERCUSSOR, NEUROLOGICAL. MCGILL'S PATTERN

- 3. Material** — Various components of the percussor shall be made from the materials as given below:

Component	Material	Conforming to
Arms, pin wheel, percussor hub and cup	Stainless steel	Designation 30Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats' or IS : 6911-1972 'Stainless steel plate, sheet and strip'.
Screw and pins	Stainless steel	Designation 04Cr18Ni10 or 07Cr18Ni9 of IS : 6528-1972 'Specification for stainless steel wire'.
Percussor	Vulcanized natural rubber	IS : 5192-1975 'Specification for vulcanized natural rubber based compounds (first revision)'.

- 4. Shape and Dimensions** — The percussor shall conform generally to the shape and dimensions as shown in Fig. 1.

5. Workmanship and Finish

5.1 Arms

5.1.1 The arms of the percussor shall be finished smooth and shall be free from burrs, pits, seams and other defects.

5.1.2 The percussor shall have its arms hinged on one end such that one arm remains fixed, whereas the other arm can move through an angle of 180°. The free ends of the arms shall terminate into semi-sharp points at right angles to the flat surfaces of the arms for two-point discrimination. The fixed arm shall be calibrated to indicate the opening between the two tips. A sharp pointed pin shall also be provided, as shown in Fig. 1, for pain sensation test. There shall be a corresponding hole on the other arm, so that both arms, when closed together shall register properly.

5.1.3 The movable arm shall have one side edge bevelled and graduated from 1 to 12 cm to serve as a measuring scale.

5.2 The pin wheel shall have sharp pin-type teeth for pain sensation test. It shall be light and shall rotate freely without jamming.

5.3 The rubber percussor shall be firmly attached to a cup, the other side of which shall have screw threads so that it can be screwed on and off the percussor hub (see Fig. 1).

5.4 All the components shall have their surfaces finished smooth and free from pits, burrs, scales and other defects. All the edges and points, except where so specified, shall be evenly rounded.

5.5 The percussor (excluding rubber part) shall be polished bright and passivated.

5.5.1 The instrument shall be treated in 10 percent (v/v) nitric acid solution for not less than 30 minutes at a temperature of not less than 10°C and not exceeding 60°C. The percussor shall then be rinsed with water, dried in hot air and joints lightly lubricated with a non-toxic and non-corrosive substance.

6. Tests

6.1 Performance — Each percussor shall be examined for:

- a) smooth opening and closing of arms;
- b) smooth movement of pin wheel;
- c) sturdiness of joints;
- d) sharpness, location and fixing of pins, tips;
- e) finish of screw threads; and
- f) overall assembly.

The percussor shall meet all the requirements given in 5.1 to 5.5.

6.2 Corrosion Resistance — Test the instrument (excluding rubber part) as prescribed in IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'.

It shall show no sign of corrosion after the test.

7. Marking — Each percussor shall be clearly and indelibly marked with the manufacturer's name, initials or registered trade-mark.

7.1 Certification Marking — Details available with the Bureau of Indian Standards. titution.

8. Packing — Each percussor shall be wrapped in a moisture-proof paper or polyethylene bag and packed in a suitable cardboard carton. The packing may also be done as agreed to between the purchaser and the supplier.